

Figure 1

100 Content Composer Block Diagram

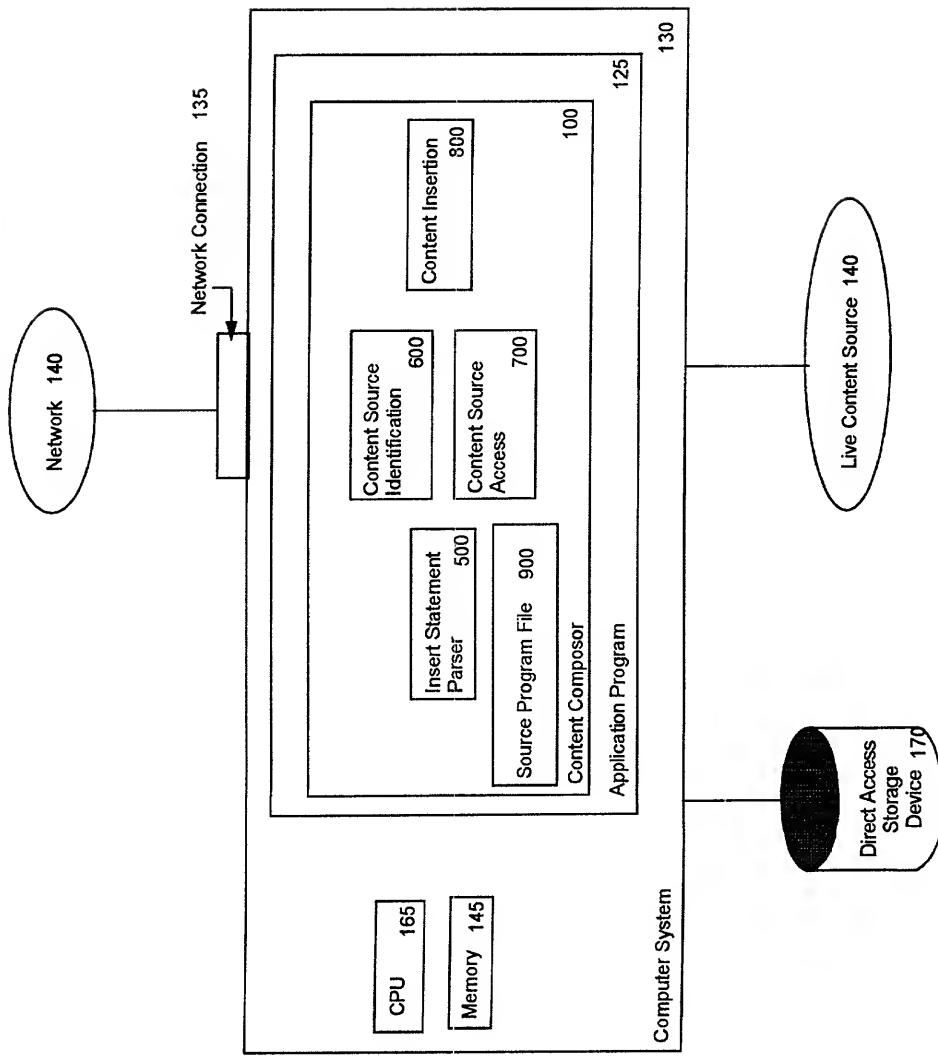
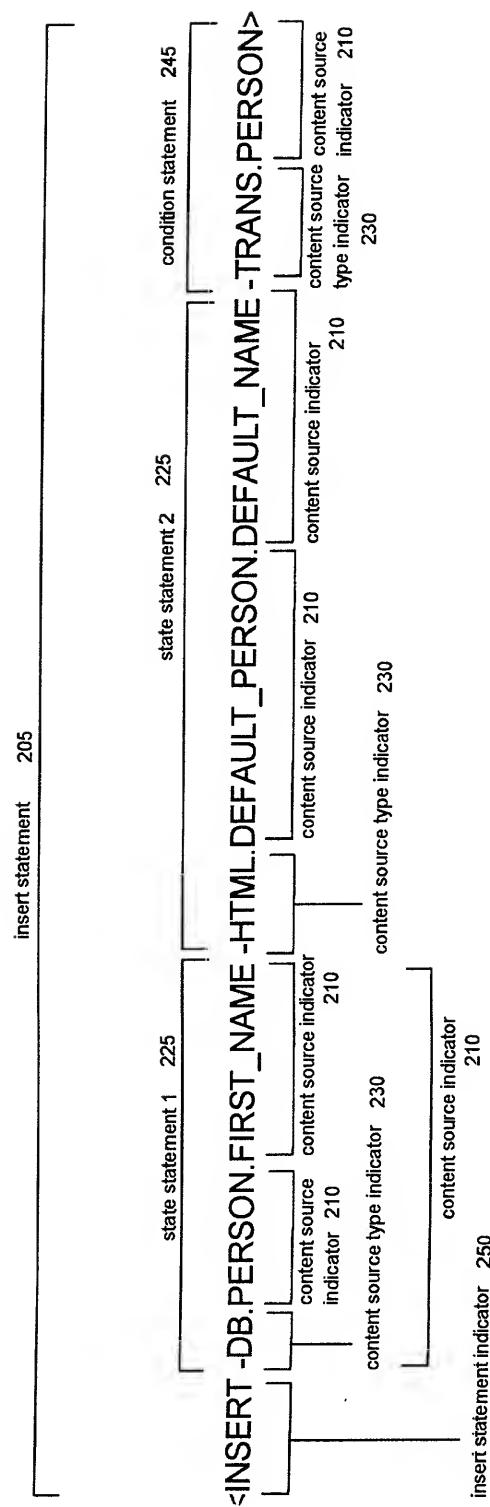


Figure 2

200 Insert Statement Structure Diagram



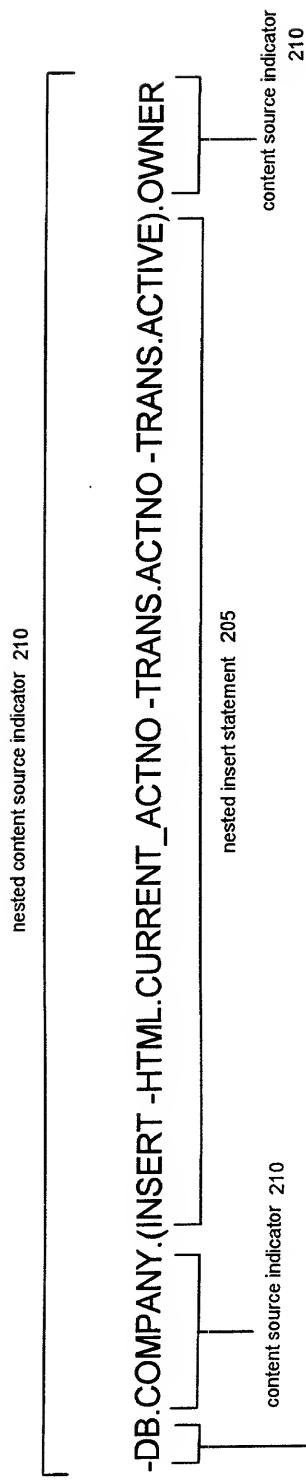


Figure 2A

Nested Content Source Indicator Structure Diagram

Figure 3

300 Content Source Access Map

content source objects	content source indicators	content source object information including type, access, retrieval instructions
305	210	310
mass data storage application	DB PERSON FIRST_NAME	DLL SXDB OPENFN DLL SXDB_PERSON SXDBFINDPERSON DLL SXDB_PERSON SXDBQUERYFNFORPERSON
HTML program source file	HTML DEFAULT_PERSON DEFAULT_NAME	INFILE PARENT c:\www\error.html INFILE PARENT c:\www\default.html INFILE PARENT c:\www\default.htm
static file	FILE	TXT c:\person_profile.txt
memory access	TRANS PERSON	DLL MEM_ACCESS.C OPENFN DLL MEM_ACCESS.C MEMB_LOCATE
multimedia data file	MOVIE	MPEG-2 c:\work_env.mpg

Figure 4

400 Insert Statement Parser Rules

insert statement identifiers	402	"<" indicating the start and ">" indicating the end
order of parsing	405	Left to right
statement delimiter	410	blank, i.e. "
content source indicator delimiter	415	period, i.e. "
content source type indicator identifier	420	hyphen or "-" proceeding a content source indicator
nested content source indicator identifier	425	proceeded by left parenthesis, i.e. "(" and followed by right parenthesis, i.e. ")"

500 Insert Statement Parser Flow Chart

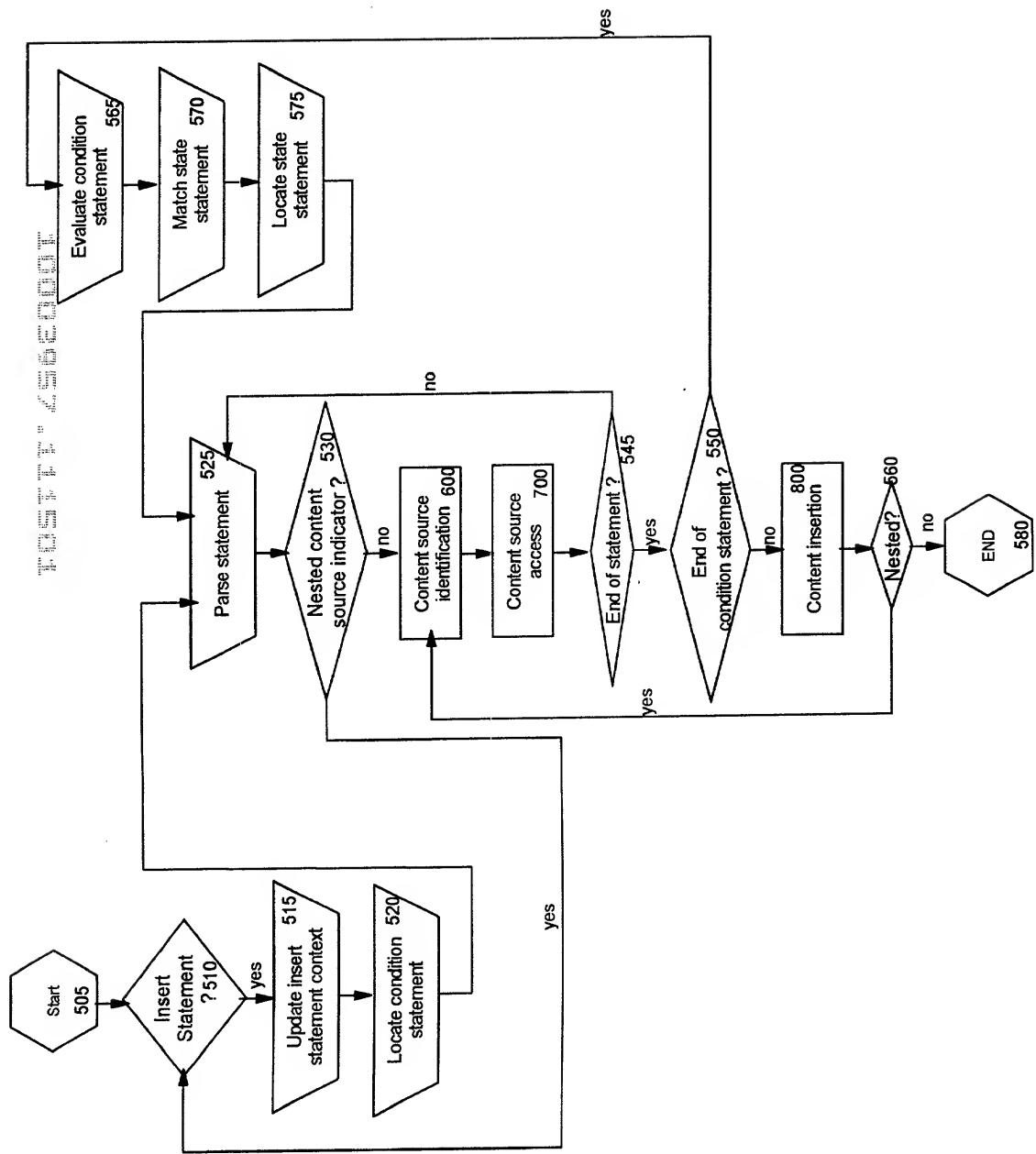


Figure 5

600 Content Source Identification Flow Chart

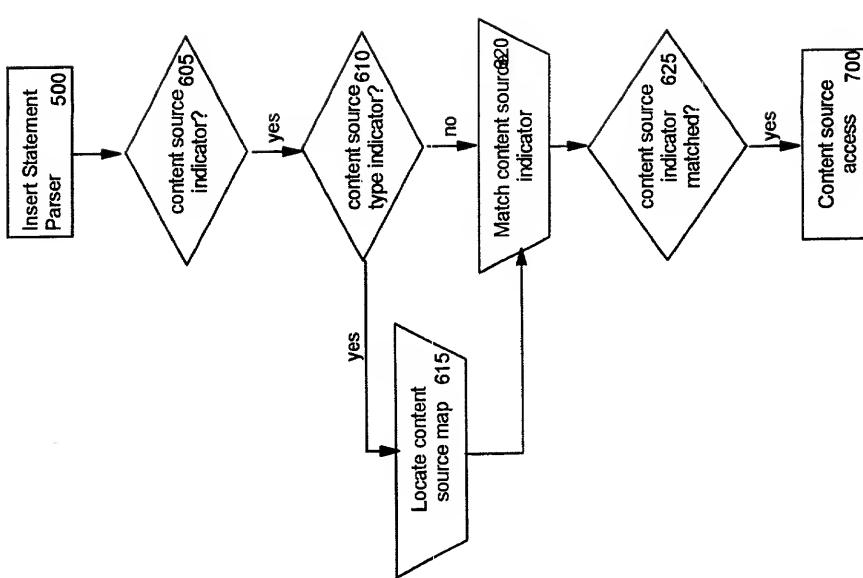
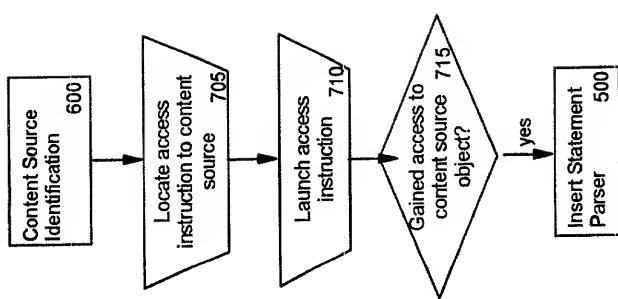


Figure 6

Figure 7

700 Content Source Access Flow Chart



800 Content Insertion Flow Chart

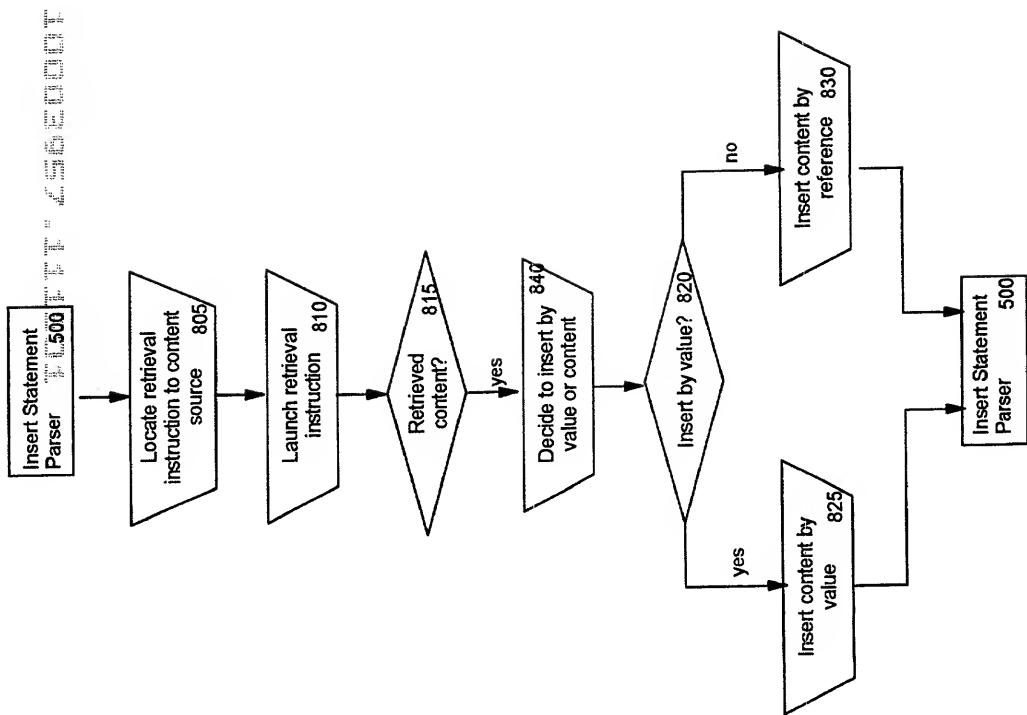


Figure 8

Figure 9

900 HTML source program file

```
:html>
<title>User Profile</title>
<body <INSERT -BK_IMAGE_SKYEXBACKIMG -BK_IMAGE.DEFAULTBACKIMG -TRANS.SKYEX>>
<table>
<tr>
<td rowspan=2
<|INSERT -IMAGE_SKYEXLOGO -IMAGE.DEFAULTBACKIMG -TRANS.SKYEX>
</td>
<td align=right>
<FONT color=#0000a0 size==+1> User Profile -- </FONT>
</td>
<td align=right>
<FONT color=#0000a0 size==+1>
<|INSERT -TRANS.PERSON.COMPANY_NAME -HTML.DEFAULT_COMPANY_NAME -TRANS.USERIDCLAIMED>
</FONT>
</td>
...
</table>
...
</body>
</html>
```

```
1005
1010
<html>
  <title>User Profile</title>
  <body background="image\back18.jpg">
    <table>
      <tr>
        <td rowspan=2>
          
        </td>
        <td align=right>
          <FONT color="#0000a0 size=+1> User Profile – </FONT>
        </td>
      </tr>
      <tr>
        <td align=right>
          <FONT color="#0000a0 size=+1> U S Weather </FONT>
        </td>
      </tr>
    </table>
  ...
  </body>
</html>
```

Figure 10

1000 resolved html source of the example HTML program source file

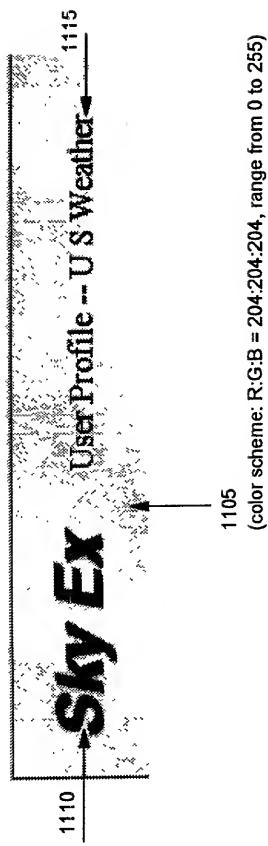


Figure 11 1100 graphic rendering of the resolved html source